

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
September 2002

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on February 18, 2003. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of September 2002.

Statewide precipitation was 80 percent of average for the 2001-2002 water year as of September 30. Statewide runoff was 75 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

On September 30, total storage in major SWP reservoirs was about 2.47 MAF, compared with about 2.65 MAF at this time in 2001. The average storage in the major SWP reservoirs at the end of September is about 3.33 MAF. The September 30 storage at Lake Oroville was about 1.4 MAF as compared to 1.49 MAF at this time last year. The State's share of San Luis Reservoir storage was about 401 TAF, as compared with 516 TAF at this time last year. On September 30, the combined storage in our southern reservoirs was about 663 TAF, compared with about 643 TAF at this time last year.

Through September, SWP water deliveries for 2002 were about 2.33 MAF. This is a combination of project, transfer, and exchange waters. This is 723 TAF more than was delivered during the same period in 2001.

Concerns for water quality, specifically the 250 mg/l chloride standard at Contra Costa Canal Pumping Plant, governed Project operations in the Delta throughout the month. The Net Delta Outflow Index requirement for September was 3,000 cfs average, but values ranged as high as 5,500 cfs in an attempt to arrest salinity intrusion.

The SWP exported about 5,800 AF of water for the EWA. Of that amount, 260 AF of water (purchased from the Sacramento Groundwater Authority) were pumped at Banks for the CVP as payment for the export curtailments taken at the CVP between May and June, 2002. The CVP provided the power for this action. The remaining amount of water represents the last portion of the water purchased by the DWR on behalf of the EWA from Yuba County Water Agency. In addition to the 260 AF mentioned above, the SWP pumped 57,240 AF during September for the CVP under the auspices of Stage 2 Joint Point of Diversion from SWRCB Water Right Decision 1641. The last of the summer's water transfers concluded in September.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Aug 31	4996.71	17,945								
1	4996.65	17,896	-49	20	0	0	0			
2	4996.58	17,839	-57	20	0	0	0			
3	4996.51	17,782	-57	20	0	0	0			
4	4996.42	17,709	-73	20	0	0	0			
5	4996.34	17,645	-64	20	0	0	0			
6	4996.27	17,588	-57	20	0	0	0			
7	4996.20	17,532	-56	20	0	0	0			
8	4996.14	17,484	-48	20	0	0	0			
9	4996.06	17,420	-64	20	0	0	0			
10	4996.00	17,372	-48	20	0	0	0			
11	4995.88	17,276	-96	20	0	0	0			
12	4995.89	17,244	-32	20	0	0	0			
13	4995.82	17,228	-16	20	0	0	0			
14	4995.74	17,165	-63	20	0	0	0			
15	4995.66	17,102	-63	20	0	0	0			
16	4995.60	17,058	-44	11	0	0	0			
17	4995.58	17,038	-20	5	0	0	0			
18	4995.54	17,007	-31	5	0	0	0			
19	4995.53	16,999	-8	5	0	0	0			
20	4995.48	16,959	-40	14	0	0	0			
21	4995.42	16,912	-47	20	0	0	0			
22	4995.36	16,865	-47	20	0	0	0			
23	4995.28	16,802	-63	20	0	0	0			
24	4995.22	16,755	-47	20	0	0	0			
25	4995.12	16,677	-78	20	0	0	0			
26	4995.04	16,615	-62	20	0	0	0			
27	4994.98	16,568	-47	20	0	0	0			
28	4994.91	16,514	-54	20	0	0	0			
29	4994.84	16,460	-54	20	0	0	0			
30	4994.77	16,406	-54	20	0	0	0			
Total cfs-days				---	540	0	0	251	791	15
Total ac-ft				-1,539	1,071	0	0	498	1,569	30

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	5562.60	23,835									
1	5562.63	23,863	28	0	4	0	0				
2	5562.57	23,807	-56	0	2	0	0				
3	5562.59	23,826	19	1	1	0	0				
4	5562.50	23,742	-84	1	1	0	0				
5	5562.47	23,714	-28	1	1	0	0				
6	5562.50	23,742	28	1	1	0	0				
7	5562.40	23,648	-94	1	1	0	0				
8	5562.40	23,648	0	1	1	0	0				
9	5562.38	23,630	-18	1	1	0	0				
10	5562.36	23,611	-19	0	2	0	0				
11	5562.35	23,602	-9	0	2	0	0				
12	5562.34	23,592	-10	0	5	0	0				
13	5562.33	23,583	-9	0	8	0	0				
14	5562.29	23,546	-37	0	9	0	0				
15	5562.30	23,555	9	0	9	0	0				
16	5562.23	23,490	-65	0	13	0	0				
17	5562.19	23,453	-37	0	16	0	0				
18	5562.16	23,425	-28	0	17	0	0				
19	5562.12	23,387	-38	0	17	0	0				
20	5562.09	23,360	-27	0	17	0	0				
21	5562.05	23,323	-37	0	17	0	0				
22	5561.94	23,221	-102	0	17	0	0				
23	5561.89	23,175	-46	0	18	0	0				
24	5561.88	23,166	-9	0	15	0	0				
25	5561.84	23,129	-37	0	13	0	0				
26	5561.78	23,074	-55	0	13	0	0				
27	5561.79	23,083	9	0	9	0	0				
28	5561.76	23,056	-27	0	7	0	0				
29	5561.75	23,047	-9	0	7	0	0				
30	5561.70	23,010	-37	0	7	0	0				
Total cfs-days				---	7	251	0	0	188	446	
Total ac-ft				-825	14	498	0	0	373	885	
1/ Values not available on a daily basis.											

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	5763.20	44,083									
1	5763.18	44,028	-55	5	0	5	0				
2	5763.15	43,944	-84	5	0	5	0				
3	5763.06	43,693	-251	5	0	5	0				
4	5763.01	43,554	-139	5	0	5	0				
5	5762.97	43,443	-111	5	0	5	0				
6	5762.94	43,360	-83	5	0	5	0				
7	5762.93	43,332	-28	5	0	5	0				
8	5762.92	43,305	-27	10	0	0	0				
9	5762.90	43,249	-56	10	0	0	0				
10	5762.89	43,222	-27	10	0	0	0				
11	5762.88	43,194	-28	10	0	0	0				
12	5762.87	43,167	-27	10	0	0	0				
13	5762.85	43,111	-56	10	0	0	0				
14	5762.79	42,918	-193	10	0	0	0				
15	5762.74	42,809	-109	10	0	0	0				
16	5762.73	42,781	-28	10	0	0	0				
17	5762.72	42,754	-27	10	0	0	0				
18	5762.68	42,644	-110	10	0	0	0				
19	5762.66	42,589	-55	10	0	0	0				
20	5762.62	42,480	-109	10	0	0	0				
21	5762.62	42,480	0	10	0	0	0				
22	5762.60	42,425	-55	10	0	0	0				
23	5762.58	42,370	-55	10	0	0	0				
24	5762.56	42,316	-54	10	0	0	0				
25	5762.54	42,261	-55	7	0	3	0				
26	5762.51	42,179	-82	5	0	5	0				
27	5762.49	42,125	-54	5	0	5	0				
28	5762.46	42,043	-82	10	0	0	0				
29	5762.43	41,962	-81	10	0	0	0				
30	5762.43	41,962	0	10	0	0	0				
Total cfs-days				- - -	252	0	48	0	784	1,084	
Total ac-ft				-2,121	501	0	94	0	1,556	2,151	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Aug 31	734.74	1,539,412								
	1	1,534,237	-5,175	9,431	32	255	0	9,718	0	4,543
	2	1,525,319	-8,918	12,779	32	312	0	13,123	0	4,205
	3	1,517,568	-7,751	12,623	32	264	0	12,919	0	5,168
	4	1,510,362	-7,206	9,427	32	252	0	9,711	0	2,505
	5	1,504,217	-6,145	9,780	32	280	0	10,092	0	3,947
	6	1,500,071	-4,146	7,915	32	181	0	8,128	0	3,982
	7	1,494,643	-5,428	7,885	32	174	0	8,091	0	2,663
	8	1,493,610	-1,033	4,114	32	180	0	4,326	0	3,293
	9	1,486,740	-6,870	10,781	32	197	0	11,010	0	4,140
	10	1,480,918	-5,822	10,343	33	220	0	10,596	0	4,774
	11	1,473,663	-7,255	10,817	33	266	0	11,116	0	3,861
	12	1,465,498	-8,165	12,202	33	247	0	12,482	0	4,317
	13	1,460,496	-5,002	8,956	33	217	0	9,206	0	4,204
	14	1,459,057	-1,439	6,612	33	189	0	6,834	0	5,395
	15	1,458,211	-846	4,973	34	171	0	5,178	0	4,332
	16	1,450,359	-7,852	11,990	34	148	0	12,172	0	4,320
	17	1,442,033	-8,326	10,337	34	130	0	10,501	0	2,175
	18	1,438,510	-3,523	8,514	34	158	0	8,706	0	5,183
	19	1,431,985	-6,525	9,581	34	294	0	9,909	0	3,384
	20	1,426,979	-5,006	9,274	33	248	0	9,555	0	4,549
	21	1,425,479	-1,500	6,073	33	235	0	6,341	0	4,841
	22	1,425,812	333	4,672	34	235	0	4,941	0	5,274
	23	1,419,077	-6,735	11,241	34	280	0	11,555	0	4,820
	24	1,413,605	-5,472	8,298	34	257	0	8,589	0	3,117
	25	1,408,727	-4,878	9,097	34	251	0	9,382	0	4,504
	26	1,402,130	-6,597	9,616	34	222	0	9,872	0	3,275
	27	1,400,896	-1,234	7,651	34	167	0	7,852	0	6,618
	28	1,402,130	1,234	3,454	34	94	0	3,582	0	4,816
	29	1,404,519	2,389	2,874	34	100	0	3,008	0	5,397
	30	1,399,662	-4,857	7,752	34	111	0	7,897	0	3,040
Total				-139,750	259,062	995	6,335	0	266,392	0
1/ Includes bypass flows										
2/ Evaporation will be zero for days when there is precipitation or heavy overcast.										
3/ Does not include pumpback.										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

September 2002

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Aug 31	23,742										
1	24,083	341	9,431	0	0	7,849	1	10	1,379	0	149
2	23,819	-264	12,779	0	0	11,749	2	10	1,393	0	111
3	23,839	20	12,623	0	0	11,701	2	10	1,394	0	504
4	23,987	148	9,427	0	0	8,063	2	10	1,306	0	102
5	23,988	1	9,780	0	0	7,723	2	10	1,256	0	-788
6	22,782	-1,206	7,915	0	0	8,009	2	10	1,247	0	147
7	21,709	-1,073	7,885	0	0	7,866	2	10	1,245	0	165
8	23,473	1,764	4,114	0	0	1,131	2	10	1,245	0	38
9	24,002	529	10,781	0	0	9,049	2	10	1,256	0	65
10	22,278	-1,724	10,343	0	0	11,303	2	10	1,256	0	504
11	24,008	1,730	10,817	0	0	8,019	2	10	1,255	0	199
12	24,359	351	12,202	0	0	10,690	2	10	1,255	0	106
13	23,714	-645	8,956	0	0	8,235	2	10	1,247	0	-107
14	23,818	104	6,612	0	0	4,681	2	10	1,241	0	-574
15	23,890	72	4,973	0	0	3,141	2	10	1,239	0	-509
16	23,512	-378	11,990	0	0	10,068	2	10	1,245	0	-1,043
17	24,386	874	10,337	0	0	8,395	2	10	1,242	0	186
18	23,633	-753	8,514	0	0	7,655	2	11	1,242	0	-357
19	23,792	159	9,581	0	0	8,323	2	11	1,236	0	150
20	23,816	24	9,274	0	0	8,103	2	11	1,243	0	109
21	23,912	96	6,073	0	0	4,836	2	11	1,237	0	109
22	23,785	-127	4,672	0	0	3,633	2	11	1,243	0	90
23	23,921	136	11,241	0	0	9,942	2	11	1,239	0	89
24	24,018	97	8,298	0	0	7,443	2	11	1,243	0	498
25	23,481	-537	9,097	496	0	8,996	2	11	1,242	0	121
26	23,803	322	9,616	496	0	8,695	2	11	1,249	0	167
27	24,051	248	7,651	482	0	6,750	2	11	1,256	0	134
28	23,943	-108	3,454	504	0	2,863	2	11	1,256	0	66
29	23,719	-224	2,874	421	0	2,284	2	11	1,257	0	35
30	24,183	464	7,752	424	0	6,236	2	11	1,256	0	-207
Total		441	259,062	2,823	0	223,431	59	313	37,900	0	259

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Aug 31	133.10	43,223										
1	132.65	41,521	-1,702	7,849	2,042	4	232	490	6,585	0	-198	7,964
2	133.25	43,797	2,276	11,749	2,022	4	224	490	6,585	0	-148	7,978
3	133.74	45,697	1,900	11,701	1,968	3	228	464	6,585	0	-553	7,979
4	133.45	44,568	-1,129	8,063	1,900	1	228	411	6,684	0	32	7,990
5	133.29	43,951	-617	7,723	1,847	0	226	353	6,744	0	830	8,000
6	132.96	42,690	-1,261	8,009	1,759	0	192	333	6,724	0	-262	7,971
7	132.60	41,334	-1,356	7,866	1,710	0	175	311	6,744	0	-282	7,989
8	130.44	33,629	-7,705	1,131	1,680	0	145	317	6,744	0	50	7,989
9	130.47	33,731	102	9,049	1,634	0	137	331	6,764	0	-81	8,020
10	131.05	35,730	1,999	11,303	1,644	0	139	305	6,764	0	-452	8,020
11	130.78	34,793	-937	8,019	1,589	0	99	294	6,743	0	-231	7,998
12	131.36	36,820	2,027	10,690	1,474	0	83	294	6,744	0	-68	7,999
13	131.30	36,608	-212	8,235	1,424	0	85	294	6,724	0	80	7,971
14	130.67	34,414	-2,194	4,681	1,402	0	85	292	5,752	0	656	6,993
15	129.49	30,478	-3,936	3,141	1,367	0	83	270	5,752	0	395	6,991
16	130.53	33,936	3,458	10,068	1,355	0	69	85	5,752	0	651	6,997
17	130.81	34,896	960	8,395	1,337	0	58	0	5,752	0	-288	6,994
18	131.10	35,905	1,009	7,655	1,277	0	107	0	5,772	0	510	7,014
19	131.35	36,785	880	8,323	1,260	0	141	0	5,752	0	-290	6,988
20	131.57	37,568	783	8,103	1,244	0	143	0	5,752	0	-181	6,995
21	130.92	35,277	-2,291	4,836	1,263	0	143	0	5,732	0	11	6,969
22	129.84	31,622	-3,655	3,633	1,254	0	139	0	5,732	0	-163	6,975
23	130.61	34,209	2,587	9,942	1,240	0	137	0	5,752	0	-226	6,991
24	130.60	34,175	-34	7,443	1,262	0	284	52	5,752	0	-127	6,995
25	130.97	35,451	1,276	8,996	1,228	0	389	85	5,752	0	-266	6,994
26	131.33	36,714	1,263	8,695	1,218	0	403	79	5,752	0	20	7,001
27	131.05	35,730	-984	6,750	1,285	0	405	93	5,752	0	-199	7,008
28	129.64	30,966	-4,764	2,863	1,327	0	403	114	5,712	0	-71	6,968
29	128.24	26,555	-4,411	2,284	1,323	0	403	109	4,741	0	-119	5,998
30	128.16	26,312	-243	6,236	1,365	0	405	114	4,245	0	-350	5,501
Total			-16,911	223,431	44,700	12	5,990	5,980	182,340	0	-1,320	220,240

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

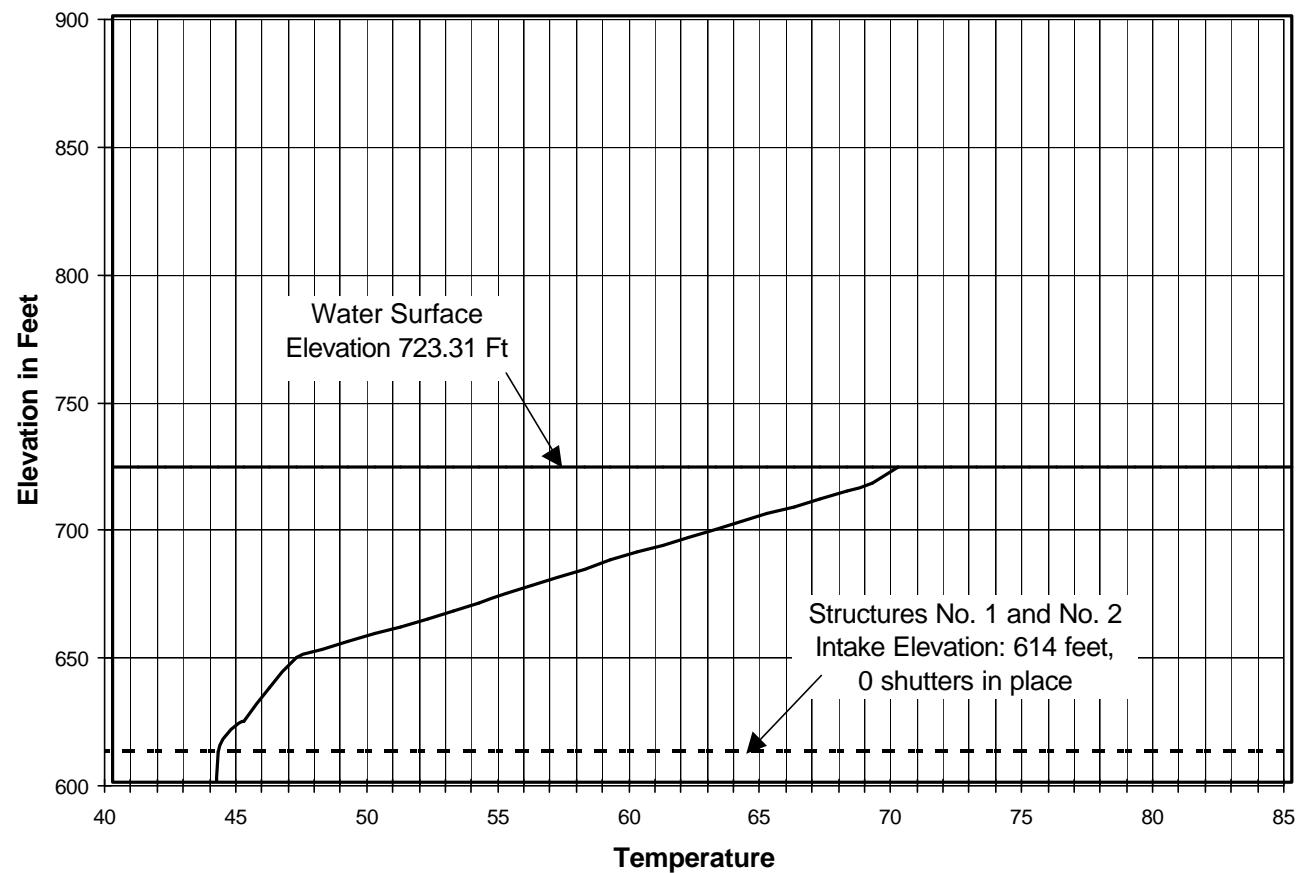
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

September 2002

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	65	53
2	64	53
3	61	54
4	60	53
5	61	52
6	60	53
7	61	53
8	62	53
9	62	53
10	62	50
11	62	50
12	61	50
13	61	51
14	60	51
15	59	51
16	59	51
17	60	54
18	60	52
19	60	50
20	60	49
21	61	50
22	62	49
23	62	50
24	61	52
25	60	52
26	59	53
27	57	53
28	58	53
29	59	52
30	59	51

**Lake Oroville Temperature Profile
on September 18, 2002**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Exten. Carry-over		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,337	127	424	2,066	501		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	628						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	424						
				Solano County Water Agency Fairfield / Vacaville 42"	2,066						
	2		17.00	Solano County Water Agency Central Solano	Stub						
	3A	Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,297						
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	573	1,220	10	284	573		
				Solano County Water Agency Benicia	1,220						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	10						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	284						
			27.60	Napa County Flood Control & WCD American Canyon 1	210						

Table 9. Delta Field Division Plant Data

(in acre-feet)

September 2002

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	195	98	12,310	12,229	593	0	0	164
2	188	93	11,804	11,767	593	0	0	164
3	177	78	9,813	9,813	582	0	0	164
4	203	102	8,098	8,098	593	0	0	98
5	187	93	7,556	7,556	592	0	0	98
6	193	95	8,216	8,216	605	0	0	131
7	186	92	7,171	7,171	593	0	0	131
8	191	92	7,739	7,658	593	0	0	131
9	158	61	9,957	7,913	601	0	0	131
10	159	55	9,744	7,761	621	0	0	131
11	176	84	10,859	8,876	600	0	0	98
12	182	88	11,315	9,332	540	0	0	66
13	191	90	10,097	8,114	537	0	0	164
14	162	69	10,533	8,550	537	0	0	164
15	172	72	12,381	10,405	537	0	0	164
16	170	75	9,536	7,553	525	0	0	197
17	173	77	9,366	7,383	513	0	0	98
18	166	67	9,701	5,735	537	0	0	89
19	180	77	7,698	3,732	526	0	0	23
20	180	78	8,399	4,433	537	0	0	0
21	173	71	5,972	2,006	537	0	0	0
22	199	72	5,758	5,758	537	0	0	98
23	188	75	5,920	1,459	537	0	0	98
24	174	59	5,604	1,143	537	0	0	98
25	166	55	5,550	1,089	537	0	0	98
26	197	76	5,223	762	517	0	0	98
27	157	55	5,407	946	352	0	0	230
28	179	74	5,388	927	138	0	0	230
29	149	56	3,857	3,857	290	0	0	230
30	166	68	4,863	3,365	301	0	0	230
Total	5,337	2,297	245,835	183,607	15,638	0	0	3,817

Table 10. Clifton Court Forebay

Daily Operation of Gates

September 2002

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	6:45	11:00	17:45					11,901
2	0:12	7:45	12:05	17:30					11,503
3	0:45	8:45	11:45	15:20					9,812
4	1:45	9:30							8,511
5	2:45	10:15	15:55	18:14					7,914
6	0:01	1:00	3:45	11:00					8,516
7	0:01	2:00	4:30	11:30					7,930
8	0:01	3:00	5:30	11:59	23:45	---			7,917
9	---	4:00	6:30	10:45	17:30	20:06	23:45		9,914
10	---	5:25	7:30	13:00	16:01	20:55	23:45		9,906
11	---	2:15	5:15	15:00	21:15	22:13			10,892
12	0:02	3:30	6:30	15:30					11,091
13	0:01	4:45	7:45	14:30					11,094
14	0:02	6:00	9:00	20:15	23:00	---			10,311
15	---	7:00	11:50	15:41					10,892
16	0:15	8:00	13:15	15:20					9,520
17	1:15	9:00	13:45	16:45					9,900
18	2:15	9:30	14:00	17:50					9,904
19	0:01	0:45	3:15	10:15	15:33	19:20			9,900
20	1:00	1:30	4:01	10:30	15:38	17:50			7,923
21	0:01	2:15	4:46	9:55					5,944
22	0:01	3:00	5:15	11:15					5,943
23	0:01	3:45	6:00	11:30	15:30	16:30			5,943
24	0:01	0:30	3:30	15:00					5,938
25	0:01	1:15	4:15	14:00					5,940
26	0:01	2:00	5:56	11:20					5,347
27	0:12	2:45	5:45	14:30					5,335
28	0:01	3:45	6:46	10:43					5,351
29	0:01	4:45							3,948
30	0:01	6:00	11:10	13:26					4,949
Total inflow for the month in AF:									249,889

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Local	Loan Water	Carryover Ent.		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			245,835		90					
	South Bay Pumping Plant	4.49	Bethany Reservoir inlet		15,638							
	Check No. 1	5.95										
	Check No. 2	12.01										
		12.47	Musco Olive		90							
	Check No. 3	18.29										
		22.16	Tracy Golf & Country Club		0							
	Check No. 4	23.99										
	Check No. 5	29.73										
	Check No. 6	34.24										
		35.22	Turlock Fruit Company Inflow		0							
	Check No. 7	39.91										
2A		42.46	Oak Flat Water District-A		49	49	87	117	33	35		
		42.9	Western Hills WD		87							
		43.81	Oak Flat Water District-B		117							
		44.64	Oak Flat Water District-C		33							
	Check No. 8	45.97										
		46.18	Oak Flat Water District-D		35							
			Oak Flat Totals:		234	234	0	0	0	0		
	Check No. 9	51.3										
	Check No. 10	56.86										
	Check No. 11	61.4										
		66.14	Veteran's Cemetery		6							
	Check No. 12	66.71			220,437							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement	General Wheeling	Local	Recreation		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	15,638	4	13	1,028			
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	4						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
2	3		7.21	Zone 7 Altamont	13	13	1,028				
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0						
				Zone 7 Patterson Project Water	1,028						
4	4	Check No. 4	10.68			164	1,139				
		Check No. 5	12.29								
	6		13.55	Zone 7 Wente #1	164						
			14.16	Zone 7 Wente #2	15						
			14.31	Ising Project Water	18						
		Check No. 6	14.65								
	7		14.78	Zone 7 Arroyo Mocho	1,139						
		Check No. 7	16.38								
	8		16.57	Zone 7 Wente #3	0	46	750	123	22		
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Wente #4	46						
				Zone 7 Concannon Project Water	39						
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	3,817						
				Arroyo Valle #1 & #2 Project Water	750						
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Inflow Released	123						
				Lake Del Valle Recreation	22						
				Zone 7 Wente #5	74						
6			19.20	So. Livermore Project	2,872	2,872	181	123	22		
				So. Livermore Inflow Released	0						
			19.21	So. Livermore Stored Exchanged	0						
7	La Costa Tunnel		19.21	Zone 7 - Kalthof Detjens	181	983	123	22			
			22.50	ACWD Vallecitos Project Water	983						
				ACWD Vallecitos Inflow Released	123						
			25.97	City of San Francisco San Antonio	0						
8	Mission Tunnel		28.97	ACWD - Bayside 1 & 2 Project Water:	2,502	2,502					
				Inflow Released	0						
9	Santa Clara Pipeline			Stored Exchange:	0	9,362					
			35.86	S.C.V.W.D. Meter	9,362						

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

September 2002

(in acre-feet except as noted)

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Aug 31	697.69	36,267									
1	697.58	36,194	-73	107	0	0	164	1	15	180	0.00
2	697.46	36,114	-80	103	0	0	164	1	18	183	0.00
3	697.28	35,994	-120	60	0	0	164	1	15	180	0.00
4	697.12	35,888	-106	7	0	0	98	1	14	113	0.00
5	696.95	35,775	-113	1	0	0	98	1	14	114	0.00
6	696.77	35,656	-119	25	0	0	131	1	12	144	0.00
7	696.59	35,538	-118	25	0	0	131	1	10	143	0.00
8	696.40	35,413	-125	17	0	0	131	1	10	142	0.00
9	696.20	35,281	-132	13	0	0	131	1	13	145	0.00
10	696.00	35,150	-131	22	0	0	131	1	21	153	0.00
11	695.79	35,013	-137	-22	0	0	98	1	15	115	0.00
12	695.57	34,870	-143	-62	0	0	66	1	15	81	0.00
13	695.36	34,734	-136	42	0	0	164	1	13	178	0.00
14	695.14	34,592	-142	35	0	0	164	1	12	177	0.00
15	694.93	34,457	-135	42	0	0	164	1	12	177	0.00
16	694.71	34,316	-141	68	0	0	197	1	11	209	0.00
17	694.43	34,136	-180	-69	0	0	98	1	11	111	0.00
18	694.15	33,958	-178	-78	0	0	89	1	10	100	0.00
19	693.90	33,799	-159	-120	0	0	23	1	15	39	0.00
20	693.62	33,621	-178	-164	0	0	0	1	13	14	0.00
21	693.39	33,476	-145	-126	0	0	0	1	18	19	0.00
22	693.17	33,337	-139	-24	0	0	98	1	16	115	0.00
23	692.91	33,174	-163	-49	0	0	98	0	16	114	0.00
24	692.64	33,004	-170	-54	0	0	98	0	18	116	0.00
25	692.36	32,830	-174	-59	0	0	98	0	17	115	0.00
26	692.09	32,662	-168	-56	0	0	98	0	14	112	0.00
27	691.75	32,451	-211	27	0	0	230	0	9	238	0.00
28	691.51	32,303	-148	88	0	0	230	0	6	236	0.00
29	691.49	32,291	-12	223	0	0	230	0	5	235	0.00
30	691.47	32,278	-13	226	0	0	230	0	9	239	0.00
Total		-3,989		246	0	0	3,817	22	396	4,235	0.00

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

September 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Aug 31	222.96	50,939											
1	222.64	50,086	-853	0	2,049	0	5,752	0	2,432	5,668	15	-116	
2	222.17	48,836	-1,250	0	2,159	0	5,598	0	3,603	4,433	16	-335	
3	222.16	48,810	-26	0	2,248	0	4,587	0	1,735	5,007	15	-91	
4	222.35	49,314	504	0	2,045	0	3,485	0	1,339	4,549	17	629	
5	221.88	48,071	-1,243	0	1,836	0	3,707	0	1,525	4,022	16	-607	
6	221.50	47,073	-998	0	1,612	0	4,024	0	1,755	4,540	17	173	
7	221.56	47,230	157	0	1,797	0	3,177	0	0	4,581	15	-299	
8	220.44	44,296	-2,934	0	2,233	0	3,866	0	1,413	6,155	16	6	
9	220.69	44,949	653	0	2,126	825	4,889	0	2,561	4,276	16	-658	
10	220.89	45,472	523	0	1,966	550	5,167	0	2,541	4,385	17	-476	
11	220.28	43,879	-1,593	0	1,874	0	4,946	0	3,183	4,140	15	-285	
12	219.33	41,426	-2,453	0	1,870	0	4,600	0	3,382	4,463	15	153	
13	219.41	41,631	205	0	2,058	697	4,338	0	2,631	4,396	16	53	
14	219.63	42,196	565	0	2,121	0	4,876	0	1,732	5,152	17	189	
15	219.03	40,660	-1,536	0	1,983	0	5,513	0	3,604	4,673	16	23	
16	220.33	44,009	3,349	0	1,882	1,315	4,282	0	1,730	4,160	15	114	
17	220.14	43,515	-494	0	1,650	0	3,868	0	1,914	3,897	16	60	
18	221.36	46,705	3,190	0	1,565	1,672	4,491	0	2,552	4,065	15	512	
19	219.64	42,222	-4,483	0	1,599	560	3,364	0	3,714	4,048	17	-4	
20	219.58	42,067	-155	0	1,924	1,477	3,554	0	3,103	4,011	15	96	
21	220.78	45,184	3,117	0	2,038	4,474	2,600	0	2,301	5,124	15	-101	
22	221.10	46,023	839	0	2,040	3,906	2,524	0	2,735	5,196	16	-100	
23	222.15	48,783	2,760	0	2,029	3,895	2,474	0	3,376	3,741	16	126	
24	221.54	47,178	-1,605	0	1,894	3,310	2,296	0	4,180	4,009	16	-104	
25	221.42	46,863	-315	0	1,818	3,457	2,188	0	3,632	3,982	3	-5	
26	221.52	47,125	262	0	1,782	3,871	2,465	0	3,287	4,591	3	-105	
27	221.27	46,469	-656	0	1,726	4,014	1,864	0	4,164	4,301	3	533	
28	220.44	44,296	-2,173	0	1,800	4,581	2,558	0	3,437	6,119	3	-476	
29	219.72	42,428	-1,868	0	1,937	3,356	1,789	0	2,557	5,174	3	-290	
30	220.61	44,740	2,312	0	1,935	3,199	2,290	0	1,916	4,223	3	-116	
Total				-6,199	0	57,596	45,159	111,132	0	78,034	137,081	398	-1,499
Mean cfs				---	0	1,920	1,505	3,704	0	2,601	4,569	13	-50
Acre-feet				-6,199	0	114,244	89,572	220,437	0	154,780	271,902	790	-2,980

1/ Pump-in located at Mile 79.67R.

2/ Includes 76 AF delivered to DFG at O'Neill Forebay and 14 AF to Parks and Recreation and 700 AF to SLWD. USBR Water Year ended 9/25/02. Total represented daily from 9/26 thru 9/30 are averages used estimated to correlate with actual charge through 9/25/02.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

September 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Aug 31	414.62	643,876						
1	415.09	647,920	4,044	2,432	0	276	0	-117
2	415.79	653,960	6,040	3,603	0	246	0	-312
3	416.09	656,555	2,595	1,735	0	293	0	-134
4	416.27	658,114	1,559	1,339	0	274	0	-279
5	416.53	660,368	2,254	1,525	0	292	0	-97
6	416.77	662,451	2,083	1,755	0	265	0	-440
7	416.72	662,017	-434	0	0	259	0	40
8	416.86	663,233	1,216	1,413	0	254	0	-546
9	417.17	665,929	2,696	2,561	825	221	0	-156
10	417.55	669,239	3,310	2,541	550	266	0	-56
11	418.09	673,953	4,714	3,183	0	248	0	-558
12	418.78	679,995	6,042	3,382	0	230	0	-106
13	419.22	683,858	3,863	2,631	697	218	0	232
14	419.47	686,057	2,199	1,732	0	217	0	-406
15	420.21	692,581	6,524	3,604	0	216	0	-99
16	420.22	692,669	88	1,730	1,315	195	0	-176
17	420.58	695,851	3,182	1,914	0	218	0	-92
18	420.70	696,913	1,062	2,552	1,672	217	0	-128
19	421.33	702,498	5,585	3,714	560	217	0	-121
20	421.63	705,163	2,665	3,103	1,477	213	0	-69
21	421.14	700,812	-4,351	2,301	4,474	221	0	200
22	420.82	697,975	-2,837	2,735	3,906	211	0	-48
23	420.66	696,559	-1,416	3,376	3,895	187	0	-8
24	420.80	697,798	1,239	4,180	3,310	208	0	-37
25	420.84	698,153	355	3,632	3,457	217	0	221
26	420.63	696,293	-1,860	3,287	3,871	220	0	-134
27	420.58	695,851	-442	4,164	4,014	312	0	-61
28	420.37	693,994	-1,857	3,437	4,581	363	0	571
29	420.13	691,874	-2,120	2,557	3,356	331	0	61
30	419.74	688,435	-3,439	1,916	3,199	361	1	-89
Total			44,559	78,034	45,159	7,466	1	-2,944
Mean cfs			---	2,601	1,505	249	0	-98
Acre-feet			44,559	154,780	89,572	14,808	2	-5,839

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 10,860 AF, San Benito: 3,948 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

September 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,242	8,178	0	0	4,823	4,823	548
2	8,793	5,734	0	0	7,146	6,942	487
3	9,931	6,920	0	0	3,442	2,746	582
4	9,023	6,586	0	0	2,655	1,917	543
5	7,978	5,568	0	0	3,024	2,301	580
6	9,005	6,579	0	0	3,481	3,481	525
7	9,087	6,666	0	0	0	0	514
8	12,209	11,158	0	0	2,803	-71	503
9	8,481	7,500	1,636	1,636	5,080	-156	438
10	8,697	7,696	1,091	1,091	5,041	-115	528
11	8,212	7,218	0	0	6,314	-156	491
12	8,853	7,873	0	0	6,709	-190	456
13	8,720	7,743	1,382	1,382	5,218	-71	432
14	10,219	9,235	0	0	3,436	-119	430
15	9,269	8,216	0	0	7,148	-120	429
16	8,252	7,294	2,609	2,609	3,431	-91	387
17	7,729	6,761	0	0	3,797	-120	432
18	8,063	7,027	3,317	3,317	5,061	-108	431
19	8,029	7,074	1,111	1,111	7,366	421	430
20	7,956	6,998	2,929	2,929	6,154	-262	422
21	10,164	9,199	8,875	8,875	4,565	-111	439
22	10,306	10,306	7,747	7,747	5,425	-239	419
23	7,421	7,030	7,726	7,726	6,697	-272	371
24	7,951	7,560	6,565	6,565	8,291	-951	412
25	7,898	7,507	6,857	6,857	7,204	-681	430
26	9,107	8,716	7,678	7,678	6,519	-125	436
27	8,531	8,140	7,962	7,962	8,260	5	618
28	12,138	11,747	9,086	9,086	6,818	94	721
29	10,262	10,262	6,656	6,656	5,071	-70	657
30	8,376	7,985	6,345	6,345	3,801	-71	717
Total	271,902	236,476	89,572	89,572	154,780	18,631	14,808

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
September 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	324.76	19,175					
1	324.75	19,171	-4	0	0	0	-4
2	324.73	19,162	-9	0	0	0	-9
3	324.69	19,143	-19	0	0	0	-19
4	324.66	19,130	-13	0	0	0	-13
5	324.64	19,121	-9	0	0	0	-9
6	324.60	19,103	-18	0	0	0	-18
7	324.57	19,089	-14	0	0	0	-14
8	324.55	19,080	-9	0	0	0	-9
9	324.54	19,076	-4	0	0	0	-4
10	324.53	19,071	-5	0	0	0	-5
11	324.51	19,062	-9	0	0	0	-9
12	324.49	19,053	-9	0	0	0	-9
13	324.47	19,044	-9	0	0	0	-9
14	324.46	19,040	-4	0	0	0	-4
15	324.42	19,022	-18	0	0	0	-18
16	324.40	19,013	-9	0	0	0	-9
17	324.38	19,004	-9	0	0	0	-9
18	324.36	18,995	-9	0	0	0	-9
19	324.35	18,990	-5	0	0	0	-5
20	324.34	18,986	-4	0	0	0	-4
21	324.33	18,981	-5	0	0	0	-5
22	324.30	18,968	-13	0	0	0	-13
23	324.29	18,963	-5	0	0	0	-5
24	324.27	18,954	-9	0	0	0	-9
25	324.26	18,950	-4	0	0	0	-4
26	324.22	18,932	-18	0	0	0	-18
27	324.18	18,914	-18	0	0	0	-18
28	324.17	18,910	-4	0	0	0	-4
29	324.15	18,901	-9	0	0	0	-9
30	324.13	18,892	-9	0	0	0	-9
Total			-283	0	0	0	-283
Mean cfs			---	0	0	0	---
Acre-feet			-283	0	0	0	-283

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations
September 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Aug 31	600.50	711			0	0	
1	Not Observed			0	0	0	
2	Not Observed			0	0	0	
3	Not Observed			0	0	0	
4	Not Observed			0	0	0	
5	Not Observed			0	0	0	
6	600.50	710	-1	0	0	0	
7	Not Observed			0	0	0	
8	Not Observed			0	0	0	
9	Not Observed			0	0	0	
10	Not Observed			0	0	0	
11	Not Observed			0	0	0	
12	Not Observed			0	0	0	
13	600.50	710		0	0	0	
14	Not Observed			0	0	0	
15	Not Observed			0	0	0	
16	Not Observed			0	0	0	
17	Not Observed			0	0	0	
18	Not Observed			0	0	0	
19	Not Observed			0	0	0	
20	600.40	704	-6	0	0	0	
21	Not Observed			0	0	0	
22	Not Observed			0	0	0	
23	Not Observed			0	0	0	
24	Not Observed			0	0	0	
25	Not Observed			0	0	0	
26	Not Observed			0	0	0	
27	600.30	699	-5	0	0	0	
28	Not Observed			0	0	0	
29	Not Observed			0	0	0	
30	600.30	699		0	0	0	
Total			-12	0	0	0	---
Mean cfs			---	0	0	0	---
Acre-feet			-12	0	0	0	-12

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		220,437						
3A		San Luis Reservoir		Department of Parks and Recreation	2	10,860		1	1		
				San Felipe Division Santa Clara Water District	10,860						
				San Felipe Division San Benito Water District	3,948						
				Department of Parks and Recreation	14						
3	13	O'Neill Forebay	70.85	Cattle Program	0		514	8	6		
				Department of Fish & Game	76						
				70.91 Thru	San Luis Water District						
			85.08	(Floodwater Inflow)	0	186	514	0	0		
				Reach 3 Subtotal:	790						
			86.73	Check No. 13		186	514	42	34		
				Dos Amigos Pumping Plant							
			14	89.03 Thru 94.06	San Luis Water District	1,816					
				89.66 Thru 89.67	Pacheco Water District						
				89.68	Panoche Water District						
				89.70	City of Dos Palos						
				Check No. 14	95.06						
				98.15 Thru 104.20	San Luis Water District						
4	15		102.64	96.15 Thru 102.64	Panoche Water District	893	4				
				(Floodwater Inflow)	0						
				102.64	Broadview Water District						
				105.22 Thru 108.64	Westlands Water District						
			108.64	Check No.15	108.50	4,342					
				San Felipe Division Total:	14,808						
				Pacheco Water District Total:	443						
				Broadview Water District Total:	4						
				City of Dos Palos Total:	121	2,186	514	0	0		
				SLWD Reach 4 Subtotal:	2,000						
				Panoche Water District Total:	925						
				SLWD Total:	2,700						
				Westlands WD Reach 4 Subtotal:	4,342						

1/ Water transferred from Kern-Tulare WD to San Luis WD.

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			USBR	Transfer 1/	DWR Recreation	USBR Recreation			
	No.	Structure	Mile									
5	16			110.52	(Reverse flow, Kings River)	0	4,998	1				
				Thru	Westlands Water District	4,998						
				122.05	Department of Fish and Game	1						
		Check No. 16		122.07								
	17			124.18	Westlands Water District	2,011	2,011					
				Thru								
				132.74								
	18	Check No. 17		132.95								
				133.81	Westlands Water District	4,427	4,427					
				Thru								
				142.61								
		Pleasant Valley Pumping Plant		143.16	Westlands Water District	5,234						
				143.16	City of Coalinga	460						
6	19	Check No. 18		143.23			16,670	0	0			
					Westlands WD Reach 5 Subtotal:	16,670						
				145.26	Westlands Water District	4,629	4,629					
				Thru								
7	20			151.19			4,629	0	0			
			Check No. 19	155.64								
					Westlands WD Reach 6 Subtotal:	4,629						
	21						83					
				156.34	City of Huron	83						
				156.40	Westlands Water District	1,836	1,836					
				Thru								
				163.69								
			Check No. 20	164.69								
	21			164.79	City of Avenal	218	218					
				167.04	Westlands Water District	2,380						
				Thru								
				171.67								
		Check No. 21		172.40		242,789						
					Reach 7 Total:	4,517	2,950	1,567	0			
					Westlands WD Total:	29,857	28,290	1,567	0			
					City of Coalinga Total:	460	460	0	0			
					City of Huron Total:	83	83	0	0			
					City of Avenal Total:	218	218	0	0			
					Phase I Water Total:	3	3	0	0			
					Total San Luis Field Division Deliveries:	49,715	47,541	2,081	52			
1/ Water transferred from Tulare Lake Basin WSD to Westlands WD.												

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
September 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/ 5/	Pool 15 5/	Pools 15 thru 21 4/ 5/	Flow Past Check 21	
Aug 31	29,083								
1	29,658	575	0	5,668	43	15	515	4,773	-32
2	28,496	-1,162	0	4,433	44	17	514	4,508	64
3	29,723	1,227	0	5,007	43	15	514	3,587	-230
4	29,919	196	0	4,549	44	16	516	3,676	-198
5	28,893	-1,026	0	4,022	43	14	514	3,974	6
6	29,355	462	0	4,540	44	16	516	3,683	-48
7	28,779	-576	0	4,581	43	17	514	4,417	120
8	29,546	767	0	6,155	44	16	516	5,441	249
9	29,000	-546	0	4,276	44	17	514	4,200	223
10	28,968	-32	0	4,385	43	14	515	3,931	102
11	28,460	-508	0	4,140	43	16	514	3,941	118
12	28,241	-219	0	4,463	43	15	515	4,128	127
13	28,124	-117	0	4,396	42	15	514	4,013	129
14	29,097	973	0	5,152	44	17	515	4,239	154
15	27,738	-1,359	0	4,673	43	16	514	5,134	349
16	28,855	1,117	0	4,160	43	15	515	3,211	187
17	28,865	10	0	3,897	44	16	514	3,438	120
18	28,595	-270	0	4,065	43	17	515	3,427	-199
19	28,665	70	0	4,048	42	15	516	3,541	102
20	28,817	152	0	4,011	42	15	514	3,440	77
21	28,819	2	0	5,124	43	16	514	4,733	183
22	28,797	-22	0	5,196	44	15	515	4,879	246
23	29,069	272	0	3,741	42	14	515	3,091	58
24	28,573	-496	0	4,009	43	15	514	3,768	81
25	28,452	-121	0	3,982	42	14	514	3,439	-34
26	28,629	177	0	4,591	42	16	516	3,933	6
27	28,484	-145	0	4,301	44	17	515	3,799	1
28	28,763	279	0	6,119	42	15	514	5,547	140
29	28,722	-41	0	5,174	43	15	515	4,787	166
30	28,675	-47	0	4,223	44	15	514	3,724	51
Total		-408	0	137,081	1,293	466	15,440	122,404	2,317
Mean cfs		- - -	0	4,569	43	16	515	4,080	77
Acre-feet		-408	0	271,902	2,564	925	30,626	242,789	4,594

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 442 AF AG & 1 AF M&I to Pacheco W.D. and 121 AF to the City of Dos Palos.

4/ Includes 83 AF to the City of Huron, 218 AF to the City of Avenal, 460 AF to the City of Coalinga, 3 AF Phase I Water @ 7R pool 16, 4 AF to Broadview W.D., and 1 AF to F&G @ WWD Lateral 4L.

5/ USBR Water Year Ended 9/25/02. Totals represented daily from 9/26 thru 9/30 are on average use estimated to correlate with actual charge through 9/25/02.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

September 2002

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	503	503	111	105	114	6,020	6,089	5,928	5,801
2	425	425	112	106	114	5,991	6,001	5,848	5,801
3	353	353	90	82	88	4,365	4,277	4,096	3,955
4	443	443	155	153	150	4,409	4,247	3,965	3,892
5	412	412	137	131	132	5,215	5,233	4,923	4,881
6	338	338	122	119	117	4,912	4,794	4,452	4,426
7	461	461	129	122	123	6,533	6,397	6,240	6,169
8	392	392	153	143	148	7,335	7,614	7,450	7,305
9	252	252	84	79	83	5,545	5,504	5,259	5,219
10	288	288	120	114	116	5,654	5,581	5,207	5,097
11	256	256	147	143	142	5,239	5,148	4,909	4,856
12	289	289	140	131	131	5,414	5,392	5,219	5,149
13	257	257	142	136	133	5,223	5,147	4,966	4,853
14	329	329	134	129	128	6,624	6,546	6,337	6,285
15	303	303	141	130	139	7,276	7,353	7,145	7,091
16	215	215	93	85	92	4,793	4,779	4,703	4,483
17	273	273	126	119	119	4,859	4,853	4,597	4,641
18	338	338	130	127	130	5,246	5,222	4,948	4,824
19	299	299	127	120	123	5,142	5,200	4,917	4,832
20	245	245	145	139	135	4,817	4,762	4,583	4,560
21	331	331	123	119	120	7,034	7,162	6,956	6,983
22	280	280	138	130	139	7,225	7,330	7,145	7,088
23	215	215	83	77	81	4,359	4,463	4,292	4,278
24	223	223	127	122	122	5,037	4,977	4,777	4,665
25	238	238	124	119	123	4,764	4,954	4,728	4,614
26	302	302	149	142	145	5,305	5,147	4,880	4,786
27	265	265	98	93	100	5,096	5,066	4,806	4,786
28	392	392	133	127	128	7,822	7,978	7,734	7,735
29	275	275	137	127	135	7,194	7,425	7,164	7,091
30	238	238	76	70	75	4,991	5,023	4,824	4,786
Total	9,430	9,430	3,726	3,539	3,625	169,439	169,664	162,998	160,932

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Purchase Pool A	Purchase Pool B	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		242,789							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	400	799	244	136			
				County of Kings TL - A	400							
				TLBWS D TL-A	799							
			175.18	DRWD - 1	244							
			177.54	DRWD - 1B	136							
			180.64	TLBWS D - C	0							
			180.65	DRWD - 1A	176							
			182.99	DRWD - 2	2,181							
			183.00	Tulare Lake Basin WSD TL - B	151							
			184.00	DRWD - Paramount	4							
31A			184.63	Coastal Branch	9,430							
			184.78	Dudley Ridge Water Dist. DRWD - 3	1,250							
8D				Dudley Ridge Reach 8D Total:	3,991	3,991	0	0	0	0		
				Tulare Lake Basin WSD Total:	950							
9	23		Check No. 22	184.82		2,823	714	128	224			
			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	2,823							
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	714							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	128							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	224							
				K.C.W.A. Reach 9 Subtotal:	3,889							
			Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	338	338	81	6	1,233			
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	81							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	6							
			Check No. 24	207.94								
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,233		3,865	183	696			
			209.78	Kern National Wildlife Refuge USBR BV-1B	3,865							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	3,283							
				KCWA Semitropic WSD Penstocks	13,496							
				USBR Total:	3,865	0	3,865	0	0	0		
				K.C.W.A. Reach 10A Subtotal:	15,105							

1/ Entitlement water transferred from Alameda County FC&WCD Zone 7 (2,000 AF) and Madera ID (1,100 AF).

2/ Water transferred from Alameda County FC&WCD Zone 7 (3,000 AF), Kern Tulare (3,234 AF), and Rag Gulch (3,234 AF).

3/ Castaic WA water sent to Semitropic for storage.

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Federal Wheeling 2/	Purchase Pool A	Purchase Pool B	Other 3/		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	0	81	6,519	0	0	0		
			Kern County Water Agency Belridge - 3	81	81							
			Kern County Water Agency Belridge - 4	0	0							
			Kern County Water Agency Belridge - 5	6,519	6,519							
			Kern County Water Agency Belridge - 5D	112	112							
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	6,712	6,712			0	0	0		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	0	123	123	0	0	0		
			Kern County Water Agency West Kern - 3	123	123							
		Check No. 26	224.92									
			Kern County Water Agency Buena Vista - 6	0	0							
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0	0							
		Check No. 27	231.73									
	28	235.75	Kern County Water Agency Buena Vista - 2	0	0	44	143	0	0	9,864		
			Kern County WA CVC	9,908	9,908							
		238.04	Hills Valley	143	143							
			Tulare Co.	227	227							
			Lower Tule River	1,320	1,320							
			Tri Valley	48	48							
			Pixley ID	1,320	1,320							
			Hacienda									
			DWR Wells	0	0							
		Check No. 28	238.11									
			1/ Arvin Edison Total:	0	0							
			Reach 12E Subtotal:	9,908	9,908							
13B	29	238.19	Kern Water Bank Inflow	0	0	44	0	0	0	9,864		
			Kern Water Bank Outflow	0	0							
		241.02	Kern River Intertie (inflow)	0	0							
		242.85	KCWA Buena Vista WSD - 7	0	0							
		243.09	KCWA Buena Vista WSD - 5	0	0							
		Check No. 29	244.54	Kern County Water Agency Buena Vista - 3	0							
			Buena Vista WSD	0	0							
14A	30	249.85	Kern County Water Agency Buena Vista - 4	0	0			0	0	0		
		Buena Vista Pumping Plant	250.99		169,439							
			K.C.W.A. Reach 13B Subtotal:	0	0							
		254.47	Kern County Water Agency West Kern - 2	0	0							
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0	0							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Wheeling Federal Water for Friant Water Users Authority.

3/ Water transferred from San Luis & Delta Mendota WA (7,400 AF), Kern Tulare (1,232 AF), and Rag Gulch (1,232 AF).

Table 22c. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Inter-ruptible Ent.	MWD Ent. Exchange	Exchange	MWD Ent.		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			59	439	0	0	0		
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3	59						
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4	439						
		Check No. 32	261.72									
					KCWA Reach 14A Subtotal:	498	498	0	0	0		
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,537	595	0	0	0		
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6	595						
		Check No. 33	267.36									
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,276	1,276	0	0	0		
			271.27									
					Reach 14B Total:	3,408	3,408	0	0	0		
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,036	746	0	0	0		
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9	794						
			277.31		Kern County Water Agency Arvin-Edison	746						
					Reach 14C Total:	2,576	2,576	0	0	0		
15A	36	Teerink Pumping Plant	278.13			169,664	2,628	0	0	0		
			279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	527						
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,628						
					Reach 15-A Total:	3,155	3,155	0	0	0		
		Chrisman Pumping Plant	280.36			162,998						
16A	37		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	19	0	0	0		
			283.95									
			285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	19						
	38		286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A	49	49	0	0	0		
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
		Check No. 38	287.09									
	39		287.62		Kern County Water Agency Wheeler Ridge-Maricopa - 13B	56	56	0	0	0		
			290.21									
	40		291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14	637	839	0	0	0		
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15	148						
					Kern County Water Agency Tehachapi Cummings CWD	839						
					K.C.W.A. Reach 16A Subtotal:	1,748	1,748	0	0	0		
17E		Edmonston Pumping Plant	293.45			160,932						

Table 23. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Inter-ruptible Ent.	Other 1/	Exchange	Purchase Pool B		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		9,430	473	5,508	0	0	0		
		Las Perillas Pumping Plant	1.16		9,430							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		9,430							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	473							
			14.83	Kern County Water Agency Berrenda Mesa - 1	5,508							
		Devil's Den Pumping Plant	14.86	Kern County Water Agency Berrenda Mesa - PO	0							
					3,726							
				K.C.W.A. Reach 31A Subtotal:	5,981	5,981	0	0	0	0		
				K.C.W.A. Total:	53,103	30,671	0	22,432	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		3,539	3,210	421	0	0	0		
	C-8	Polonio Pass Pumping Plant	26.54		3,625							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	3,210							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	421	3,631	0	0	0	0		
		Energy Dissipater	78.12									
	Lopez T.O.		85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	3,631							
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
	Tank Site 5	So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		

1/ Water transferred from Alameda County FC&WCD Zone 7 (5,000 AF), Kern Tulare (4,466 AF), Rag Gulch (4,466 AF), Madera ID (1,100 AF), and San Luis & Delta Mendota WA (7,400 AF).

Table 24. Southern Field Division Plant Data

(in acre-feet)

September 2002

Date	West Branch					East Branch									Devil Canyon Powerplant Generation	
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Generation	Leakage	Bypass Flume	
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume				
28	1	2,559	2,303	0	5,708	2,973	3,179	0	0	2,787	2,570	0	0	0	2,809	
	2	2,559	1,977	0	4,139	2,202	3,252	0	0	3,342	2,985	0	0	0	2,768	
	3	1,532	1,817	0	4,761	923	2,388	0	0	2,091	2,521	0	0	0	2,727	
	4	1,547	1,869	0	3,553	1,917	2,280	0	25	2,167	2,086	0	0	0	3,002	
	5	1,649	1,903	0	4,455	3,537	3,201	0	0	2,262	2,361	0	0	0	2,921	
	6	1,569	2,103	0	4,245	749	2,741	0	59	2,369	2,358	0	0	0	3,093	
	7	2,297	1,501	0	272	1,291	3,540	0	288	3,643	3,473	0	0	0	3,003	
	8	3,462	1,795	0	328	4,677	3,497	0	342	3,689	3,743	0	0	0	3,052	
	9	1,812	1,936	0	4,584	2,964	3,073	0	257	2,735	2,843	0	0	0	3,097	
	10	1,759	2,049	0	4,797	1,574	3,008	0	372	3,087	2,937	0	0	0	3,037	
	11	1,766	1,796	0	3,719	858	2,814	0	238	2,769	3,080	0	0	0	2,858	
	12	1,894	2,026	0	4,809	1,861	3,051	0	176	2,902	2,658	0	0	0	2,905	
	13	1,872	1,997	0	5,898	1,522	2,793	0	91	2,508	2,661	0	0	0	3,121	
	14	2,242	2,071	0	2,048	3,406	3,707	0	230	3,897	3,290	0	0	0	2,969	
	15	2,559	1,966	0	3,584	3,950	3,720	0	679	3,897	3,806	0	0	0	2,880	
	16	1,445	1,756	0	3,984	3,344	2,775	0	194	2,759	3,313	0	0	0	2,825	
	17	1,533	1,790	0	4,557	1,672	2,878	0	169	2,623	2,648	0	0	0	3,112	
	18	1,708	1,786	0	1,834	780	2,898	0	180	2,703	2,725	0	0	0	2,971	
	19	1,587	1,782	0	3,855	2,006	2,914	0	280	2,926	2,791	0	0	0	3,135	
	20	1,583	1,894	0	4,554	1,807	2,893	0	16	2,507	2,641	0	0	0	2,984	
	21	2,985	2,111	0	3,000	1,843	3,596	0	212	3,481	3,216	0	0	0	3,062	
	22	2,559	2,097	0	4,450	3,294	3,597	0	612	4,250	3,856	0	0	0	2,908	
	23	1,073	2,076	0	5,108	1,622	2,772	0	337	2,922	3,338	0	0	0	2,947	
	24	1,546	1,797	0	4,551	1,749	2,905	0	178	2,854	2,998	0	0	0	3,227	
	25	1,438	1,931	0	4,739	1,654	2,902	0	160	2,685	2,672	0	0	0	3,143	
	26	1,443	1,918	0	3,956	687	3,080	0	188	2,902	2,713	0	0	0	3,144	
	27	1,453	1,914	0	3,741	1,760	3,135	0	174	2,902	3,032	0	0	0	3,119	
	28	3,838	1,920	0	1,246	1,365	3,712	0	111	3,574	3,458	0	0	0	2,967	
	29	3,098	2,629	0	1,625	3,144	3,708	0	153	3,574	3,697	0	0	0	3,112	
	30	1,442	1,891	0	5,574	3,247	3,078	0	197	2,812	2,964	0	0	0	3,062	
Total		59,809	58,401	0	113,674	64,378	93,087	0	5,918	89,619	89,434	0	0	0	89,960	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Deliveries 1/	To Piru Creek	
Aug 31	2570.15	159,964								
1	2569.71	159,419	-545	2,973	2,303	8	5,708	22	50	-49
2	2569.64	159,332	-87	2,202	1,977	8	4,139	23	48	-64
3	2567.86	157,139	-2,193	923	1,817	8	4,761	24	47	-109
4	2567.58	156,795	-344	1,917	1,869	10	3,553	25	46	-516
5	2568.58	158,023	1,228	3,537	1,903	10	4,455	26	45	304
6	2567.40	156,575	-1,448	749	2,103	12	4,245	27	44	4
7	2569.35	158,973	2,398	1,291	1,501	12	272	28	42	-64
8	2574.15	164,978	6,005	4,677	1,795	12	328	30	41	-80
9	2574.27	165,130	152	2,964	1,936	10	4,584	29	40	-105
10	2573.21	163,791	-1,339	1,574	2,049	10	4,797	30	39	-106
11	2572.27	162,609	-1,182	858	1,796	10	3,719	30	38	-59
12	2571.45	161,583	-1,026	1,861	2,026	10	4,809	31	37	-46
13	2569.43	159,072	-2,511	1,522	1,997	10	5,898	32	36	-74
14	2572.11	162,408	3,336	3,406	2,071	10	2,048	33	36	-34
15	2573.84	164,586	2,178	3,950	1,966	10	3,584	34	35	-95
16	2574.58	165,523	937	3,344	1,756	10	3,984	35	34	-120
17	2573.66	164,359	-1,164	1,672	1,790	10	4,557	36	33	-10
18	2574.13	164,953	594	780	1,786	10	1,834	37	32	-79
19	2573.95	164,725	-228	2,006	1,782	10	3,855	38	31	-102
20	2573.18	163,753	-972	1,807	1,894	10	4,554	41	30	-58
21	2573.87	164,624	871	1,843	2,111	10	3,000	41	29	-23
22	2574.26	165,118	494	3,294	2,097	10	4,450	41	28	-388
23	2573.03	163,564	-1,554	1,622	2,076	10	5,108	42	27	-85
24	2572.16	162,471	-1,093	1,749	1,797	10	4,551	42	26	-30
25	2571.14	161,196	-1,275	1,654	1,931	10	4,739	43	25	-63
26	2569.93	159,691	-1,505	687	1,918	11	3,956	44	24	-97
27	2569.81	159,543	-148	1,760	1,914	12	3,741	45	23	-25
28	2571.34	161,445	1,902	1,365	1,920	12	1,246	46	22	-81
29	2574.52	165,447	4,002	3,144	2,629	12	1,625	47	21	-90
30	2574.09	164,902	-545	3,247	1,891	12	5,574	48	20	-53
Total				4,938	64,378	58,401	309	113,674	1,050	1,029
1/ Includes 2 AF recreation and 1,048 AF entitlement to United Water Conservation District.										

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Aug 31	1519.86	23,181								
1	1526.05	25,883	2,702	5,708	0	2,973	0	0	-33	
2	1522.66	24,387	-1,496	4,139	0	2,202	0	3,433	0	
3	1531.00	28,146	3,759	4,761	0	923	0	0	-79	
4	1527.66	26,609	-1,537	3,553	0	1,917	0	3,174	1	
5	1529.54	27,469	860	4,455	0	3,537	0	0	-58	
6	1529.38	27,395	-74	4,245	0	749	0	3,570	0	
7	1520.65	23,518	-3,877	272	0	1,291	0	2,856	-2	
8	1510.23	19,273	-4,245	328	0	4,677	0	0	104	
9	1514.23	20,849	1,576	4,584	0	2,964	0	0	-44	
10	1514.74	21,055	206	4,797	0	1,574	0	3,016	-1	
11	1514.35	20,897	-158	3,719	0	858	0	3,019	0	
12	1521.26	23,780	2,883	4,809	0	1,861	0	0	-65	
13	1525.43	25,606	1,826	5,898	0	1,522	0	2,551	1	
14	1515.16	21,225	-4,381	2,048	0	3,406	0	3,023	0	
15	1514.34	20,893	-332	3,584	0	3,950	0	0	34	
16	1515.90	21,527	634	3,984	0	3,344	0	0	-6	
17	1515.34	21,299	-228	4,557	0	1,672	0	3,112	-1	
18	1517.80	22,313	1,014	1,834	0	780	0	0	-40	
19	1515.08	21,193	-1,120	3,855	0	2,006	0	2,968	-1	
20	1514.69	21,035	-158	4,554	0	1,807	0	2,905	0	
21	1509.99	19,180	-1,855	3,000	0	1,843	0	3,013	1	
22	1513.53	20,568	1,388	4,450	0	3,294	0	0	232	
23	1521.74	23,987	3,419	5,108	0	1,622	0	0	-67	
24	1520.51	23,458	-529	4,551	0	1,749	0	3,330	-1	
25	1527.38	26,482	3,024	4,739	0	1,654	0	0	-61	
26	1525.86	25,798	-684	3,956	0	687	0	3,953	0	
27	1523.14	24,596	-1,202	3,741	0	1,760	0	3,182	-1	
28	1514.53	20,970	-3,626	1,246	0	1,365	0	3,508	1	
29	1510.85	19,513	-1,457	1,625	0	3,144	0	0	62	
30	1516.64	21,831	2,318	5,574	0	3,247	0	0	-9	
Total				-1,350	113,674	0	64,378	0	50,613	
									-33	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Aug 31	1510.88	314,567							
1	1510.04	312,724	-1,843	0	0	0	1,872	0	
2	1510.67	314,106	1,382	0	3,433	0	1,953	0	
3	1509.71	312,002	-2,104	0	0	0	2,082	0	
4	1510.22	313,118	1,116	0	3,174	0	2,071	0	
5	1509.32	311,149	-1,969	0	0	0	1,934	0	
6	1510.07	312,790	1,641	0	3,570	0	1,826	0	
7	1510.52	313,776	986	0	2,856	0	1,744	0	
8	1509.71	312,002	-1,774	0	0	0	1,792	0	
9	1508.87	310,167	-1,835	0	0	0	1,746	0	
10	1509.39	311,302	1,135	0	3,016	0	1,885	0	
11	1509.81	312,220	918	0	3,019	0	2,081	0	
12	1508.82	310,058	-2,162	0	0	0	2,111	0	
13	1509.00	310,451	393	0	2,551	0	1,994	0	
14	1509.60	311,761	1,310	0	3,023	0	1,809	0	
15	1508.82	310,058	-1,703	0	0	0	1,646	0	
16	1508.04	308,361	-1,697	0	0	0	1,614	0	
17	1508.61	309,601	1,240	0	3,112	0	1,674	0	
18	1507.86	307,970	-1,631	0	0	0	1,651	0	
19	1508.43	309,209	1,239	0	2,968	0	1,662	0	
20	1508.97	310,385	1,176	0	2,905	0	1,670	0	
21	1509.54	311,630	1,245	0	3,013	0	1,655	0	
22	1508.79	309,993	-1,637	0	0	0	1,668	0	
23	1507.98	308,231	-1,762	0	0	0	1,760	0	
24	1508.61	309,601	1,370	0	3,330	0	2,037	0	
25	1507.65	307,515	-2,086	0	0	0	1,942	0	
26	1508.63	309,645	2,130	0	3,953	0	1,796	0	
27	1509.23	310,953	1,308	0	3,182	0	1,741	0	
28	1510.03	312,702	1,749	0	3,508	0	1,720	0	
29	1509.28	311,062	-1,640	0	0	0	1,576	0	
30	1508.62	309,623	-1,439	0	0	0	1,581	0	
Total				-4,944	0	50,613	0	54,293	
							0	-1,264	

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Local	Purchase Pool B	CLWA T1		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		59,809							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1,048	2					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		58,401							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	1,048	30					
			14.10	United Water Conservation Dist.	1,048							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(64,378 AF pumpback)	113,674							
29J	W4	Elderberry Forebay				11,531	30					
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	30	11,531 37,768 1,938 2,872 154	30					
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	11,531							
				MWD - 132"	37,768							
				Castaic Lake WA - T1	1,938							
				Castaic Lake WA	2,872							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	54,293	54,263	30	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87		153							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.
 All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.			
Aug 31	3352.14	72,207											
1	3351.89	71,968	-239	2,570	0	0	10	0	2,809	0	0	10	
2	3352.01	72,083	115	2,985	0	0	9	0	2,768	0	1	-92	
3	3351.84	71,920	-163	2,521	0	0	8	1	2,727	0	0	52	
4	3350.91	71,036	-884	2,086	0	0	9	0	3,002	0	1	42	
5	3350.28	70,440	-596	2,361	0	0	9	0	2,921	0	1	-26	
6	3349.50	69,707	-733	2,358	0	0	8	1	3,093	0	0	11	
7	3350.00	70,176	469	3,473	0	0	9	0	3,003	0	1	9	
8	3350.77	70,903	727	3,743	0	0	9	0	3,052	0	0	45	
9	3350.47	70,620	-283	2,843	0	0	8	1	3,097	0	1	-19	
10	3350.43	70,582	-38	2,937	0	0	9	0	3,037	0	0	71	
11	3350.60	70,742	160	3,080	0	0	9	0	2,858	0	0	-53	
12	3350.40	70,554	-188	2,658	0	0	8	1	2,905	0	0	68	
13	3349.88	70,064	-490	2,661	0	0	9	0	3,121	0	0	-21	
14	3350.18	70,346	282	3,290	0	0	8	0	2,969	0	1	-30	
15	3351.19	71,302	956	3,806	0	0	7	1	2,880	0	0	38	
16	3351.73	71,815	513	3,313	0	0	8	0	2,825	0	1	34	
17	3351.19	71,302	-513	2,648	0	0	8	0	3,112	0	0	-41	
18	3350.92	71,045	-257	2,725	0	0	8	1	2,971	0	1	-1	
19	3350.59	70,733	-312	2,791	0	0	7	0	3,135	0	0	39	
20	3350.27	70,431	-302	2,641	0	0	9	0	2,984	0	1	51	
21	3350.38	70,535	104	3,216	0	0	7	1	3,062	0	0	-42	
22	3351.33	71,435	900	3,856	0	0	7	1	2,908	0	0	-40	
23	3351.75	71,834	399	3,338	0	0	8	0	2,947	0	0	16	
24	3351.51	71,606	-228	2,998	0	0	7	1	3,227	0	1	10	
25	3351.00	71,121	-485	2,672	0	0	8	0	3,143	0	0	-6	
26	3350.58	70,724	-397	2,713	0	0	9	0	3,144	0	0	43	
27	3350.45	70,601	-123	3,032	0	0	8	1	3,119	0	0	-27	
28	3350.94	71,064	463	3,458	0	0	8	0	2,967	0	1	-19	
29	3351.51	71,606	542	3,697	0	0	9	0	3,112	0	0	-34	
30	3351.47	71,568	-38	2,964	0	0	9	1	3,062	0	0	70	
Total				-639	89,434	0	0	249	11	89,960	0	11	158
1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.													

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

September 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1583.12	115,844				
1	1583.15	115,911	67		9	
2	1583.17	115,955	44		10	
3	1583.19	115,999	44		9	
4	1583.15	115,911	-88		9	
5	1583.10	115,800	-111		9	
6	1583.13	115,866	66		9	
7	1583.08	115,756	-110		8	
8	1583.03	115,645	-111		9	
9	1583.03	115,645	0		10	
10	1583.10	115,800	155		9	
11	1583.07	115,734	-66		10	
12	1583.07	115,734	0		8	
13	1583.07	115,734	0		9	
14	1583.03	115,645	-89		9	
15	1583.08	115,756	111		9	
16	1583.03	115,645	-111		10	
17	1583.06	115,711	66		9	
18	1582.98	115,534	-177		9	
19	1582.96	115,490	-44		8	
20	1583.00	115,579	89		10	
21	1582.96	115,490	-89		9	
22	1582.97	115,512	22		9	
23	1582.93	115,424	-88		9	
24	1582.93	115,424	0		8	
25	1582.90	115,357	-67		270	
26	1582.91	115,380	23		146	
27	1582.90	115,357	-23		203	
28	1582.89	115,335	-22		8	
29	1582.91	115,380	45		9	
30	1582.95	115,468	88		10	
Total			-376	2,505	863	-2,018

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Transfer 1/	Dry Year Purchase	Transfer Local Out		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		160,932							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 5,918 AF flow down Cottonwood Chute)	93,087		42	1,371	155			
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West	42							
			315.57	AVEK 225th Street West	0							
		Check No. 45	319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	1,526							
			323.84									
				Reach 19 Total:	1,568							
20A	47	Check No. 47	326.77				123	1,413	0	155		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	123							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0		4,390	196	2,317			
				Antelope Valley-East Kern WA	4,390							
			339.68	Antelope Valley-East Kern WA	105							
20B		Check No. 50	341.51				105	46	498			
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	2,317							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	196							
21		Check No. 53	348.17				46	498				
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
22A	57	Check No. 57	356.93				46	498				
	58		357.60	Antelope Valley-East Kern WA	46							
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	498							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

September 2002

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Recreation	Ex-change	Purchase Pool B	Local		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		89,619	91	46	315	11			
			366.09									
	59	Check No. 59	366.50		Antelope Valley-East Kern WA Temporary							
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20		Mojave Water Agency Mojave River							
	64	Check No. 64	394.60		Mojave Water Agency Temporary							
			395.10									
	65	Check No. 65	400.32									
	66		401.10		Mojave Water Agency Morongo 24" and 42"							
					Mojave Water Agency Hesperia							
		Check No. 66	403.41									
23	67	Mojave Siphon	405.48	Las Flores Ranch	0	249	11	315	46			
		Mojave Siphon Powerplant	405.65		89,434							
24		Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	249							
				Calif. State Park Silverwood Agency (Rec.)	11							
25		San Bernardino Tunnel	411.46		89,960							
				San Gorgonio Pass Water Agency	0							
		Devil Canyon Powerplant	412.73		89,960							
26A	68	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	42,631	42,631	2,905	2,398	1,763			
				Desert Water Agency (MWD Wheeling Exchange)	2,905							
				San Gabriel Valley Water District	2,398							
				Coachella Valley WD (MWD Wheeling Exchange)	1,763							
				San Bernardino Valley MWD 24" and 72"	6,474							
				San Bernardino Valley MWD 48"	625							
				MWD (SBVMWD Exchange)	0							
				425.46								
28G	69	Santa Ana Valley Pipeline	433.06	MWD-SC Box Springs	9,380	9,380	21,685	272	174			
28H				MWD-SC Perris Bypass Pipeline	21,685							
				440.05	272							
28J				442.00	MWD-SC 18"							
	Lake Perris		443.44	MWD-SC 54"	174	370	47	47	0			
				MWD-SC 78"	370							
				Calif. State Park Lake Perris Recreation	47							
				MWD Total:	130,571							

Table 32. Water Quality At Selected SWP Locations

September 2002

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	44	79	66	70	69	65	71	69	76
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	NR	0.03	0.37	0.30	0.33	0.29	0.30	0.31	0.24
Calcium	mg/l	9	14	16	17	17	17	17	17	19
Carbon - Dissolved Organic	mg/l as C	NR	3	2	2	2	2	2	2	2
Carbon - Total Organic	mg/l as C	NR	4	3	2	3	3	3	3	3
Chloride	mg/l	1	11	112	88	98	87	87	92	77
Chromium	mg/l	0.001	0.004	0.003	0.003	0.002	0.003	0.005	0.003	0.002
Copper	mg/l	<0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	39	76	98	96	96	96	96	96	101
Iron	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	10	14	13	13	13	13	13	13
Manganese	mg/l	<0.005	0.013	0.008	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.13	0.19	NR	NR	0.29	<0.01	0.26	0.19
Phosphorus-Ortho	mg/l as P	<0.01	0.07	0.06	NR	NR	0.07	<0.01	0.07	0.04
Phosphorus-Total	mg/l	<0.01	0.16	0.10	NR	NR	0.09	<0.01	0.09	0.05
Selenium	mg/l	NR	<0.001	0.001	NR	NR	NR	0.001	NR	NR
Sodium	mg/l	4	16	71	58	64	58	57	59	54
Specific Conductance	µS/cm	91	219	533	490	525	488	514	496	469
Sulfate	mg/l	2	10	23	24	25	26	24	24	28
Total Dissolved Solids	mg/l	57	132	321	299.5	317	293	309	309	286
Turbidity	NTU	2	48	11	12	5	4	5	7	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

September 2002

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Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake
	(Antioch) Daily Mean		Mean Daily	Monthly Average											
	Hi	Half			md	md	md	14dm	md	14dm	md	md	md	md	
1	3.12	1.26	2,639	2,639	7,349	3.57	9.15	0.57	0.75	1.45	1.33	0.56	0.44	0.51	213
2	3.35	1.32	2,642	2,641	6,920	3.73	9.71	0.89	0.73	1.49	1.33	0.62	0.43	0.54	203
3	3.35	1.41	3,074	2,785	6,506	3.80	11.02	1.20	0.74	1.58	1.35	0.61	0.41	0.56	212
4	3.49	1.36	3,098	2,863	6,601	4.39	0.00	1.41	0.78	1.60	1.36	0.59	0.39	0.55	213
5	3.42	1.21	3,379	2,966	6,839	3.79	11.40	1.41	0.81	1.55	1.38	0.60	0.44	0.55	183
6	3.36	1.20	3,901	3,122	6,860	4.35	11.04	1.55	0.87	1.54	1.40	0.53	0.40	0.54	202
7	3.26	1.12	3,732	3,209	6,937	3.65	10.18	1.40	0.92	1.48	1.42	0.57	0.41	0.54	207
8	2.90	0.95	3,898	3,295	6,862	3.65	9.97	1.21	0.97	1.44	1.44	0.59	0.43	0.55	198
9	2.59	0.90	3,111	3,275	7,094	3.45	8.94	1.15	1.02	1.42	1.45	0.60	0.48	0.56	205
10	2.90	0.95	3,558	3,303	7,046	3.49	9.06	1.21	1.07	1.45	1.47	0.57	0.53	0.56	195
11	3.12	1.07	2,450	3,226	7,152	3.94	9.59	1.34	1.11	1.54	1.48	0.56	0.54	0.54	203
12	3.27	1.31	2,509	3,166	7,392	4.48	10.59	1.60	1.16	1.59	1.49	0.60	0.52	0.55	198
13	3.33	1.42	3,090	3,160	7,421	4.27	11.32	1.50	1.21	1.66	1.52	0.59	0.54	0.56	200
14	3.24	1.43	3,609	3,192	7,278	4.23	10.70	1.40	1.27	1.74	1.54	0.59	0.59	0.54	213
15	3.25	1.45	3,155	3,190	6,898	4.53	10.79	1.51	1.34	1.83	1.57	0.65	0.60	0.57	213
16	3.05	1.25	3,388	3,202	7,069	4.71	10.11	1.30	1.37	1.77	1.59	0.63	0.57	0.60	217
17	3.05	1.25	3,985	3,248	6,976	4.65	10.57	1.32	1.38	1.72	1.60	0.62	0.53	0.59	218
18	3.11	1.19	3,690	3,273	7,308	4.29	10.53	1.23	1.37	1.73	1.60	0.66	0.51	0.58	225
19	3.05	1.17	3,712	3,296	7,257	4.47	10.85	1.37	1.36	1.73	1.62	0.69	0.51	0.58	225
20	3.05	1.27	4,585	3,360	7,139	4.77	11.44	1.61	1.37	1.81	1.64	0.73	0.53	0.59	225
21	2.96	1.29	5,534	3,464	7,005	4.77	11.70	1.62	1.38	1.82	1.66	0.60	0.54	0.60	227
22	2.80	1.24	5,315	3,548	6,866	4.84	11.47	1.39	1.40	1.74	1.68	0.60	0.52	0.60	223
23	2.55	1.11	5,250	3,622	6,873	4.40	10.62	1.17	1.40	1.67	1.70	0.60	0.55	0.61	217
24	2.76	1.16	5,206	3,688	6,683	4.28	10.62	1.21	1.40	1.66	1.72	0.60	0.55	0.60	222
25	2.85	1.24	4,844	3,734	6,524	4.52	11.30	1.22	1.39	1.67	1.72	0.60	0.53	0.59	230
26	3.21	1.52	4,929	3,780	5,912	4.76	12.69	1.79	1.40	1.84	1.74	0.60	0.48	0.58	223
27	3.20	1.68	4,173	3,795	6,422	5.05	12.37	1.44	1.40	1.79	1.75	0.60	0.46	0.62	218
28	3.14	1.52	4,752	3,829	6,426	4.61	11.04	1.00	1.37	1.74	1.75	0.60	0.52	0.62	227
29	3.12	1.49	5,594	3,890	6,073	4.76	11.64	1.71	1.38	1.70	1.74	0.60	0.59	0.64	228
30	3.06	1.42	4,641	3,915	6,261	4.35	10.72	1.10	1.37	1.58	1.73	0.60	0.61	0.64	235

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

September 2002

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 18, 2002	2,4-D	0.32
	September 18, 2002	Styrene	0.7
	September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.99
California Aqueduct At Banks Pumping Plant	September 18, 2002	2,4-D	0.22
	September 18, 2002	Styrene	0.8
	September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.89
O'Niell Forebay Outlet Check 13	September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.87
	September 18, 2002	2,4-D	0.17
Delta Mendota Canal At McCabe Road	September 18, 2002	2,4-D	0.18
	September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.96
California Aqueduct Near Kettleman City (Check 21)	September 17, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.97
	September 17, 2002	2,4-D	0.11
California Aqueduct At Near Highway 119 (Check 29)	September 24, 2002	2,4-Dichlorophenylacetic acid (DCAA)	1.00
	September 24, 2002	2,4-D	0.11
California Aqueduct At Tehachapi Afterbay (Check 41)	September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.83
	September 18, 2002	Chlorpyrifos	0.1

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

September 2002

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,579,488	0	40,278	30,072	3,356,544	3,332,544	501,445	340
2	6,322,464	0	41,125	33,418	3,223,872	3,212,872	501,740	347
3	6,103,584	0	36,267	25,781	2,751,168	2,751,168	494,865	348
4	4,436,928	0	46,284	38,157	2,302,080	2,302,080	501,845	317
5	4,591,008	0	40,467	33,537	2,129,664	2,129,664	499,550	300
6	3,823,488	0	41,776	34,482	2,305,536	2,305,536	513,195	277
7	3,701,952	0	39,928	33,243	1,996,224	1,996,224	503,900	237
8	1,512,288	1,152	40,824	33,054	2,137,728	2,113,728	500,635	243
9	5,040,576	1,728	31,724	26,887	2,728,512	2,121,512	509,515	262
10	5,128,128	0	31,458	21,210	2,710,464	2,121,464	526,460	261
11	5,102,208	288	36,806	31,794	2,990,400	2,454,400	509,715	245
12	5,859,648	0	38,108	29,953	3,153,792	2,617,792	460,850	219
13	4,219,776	0	40,432	28,987	2,833,920	2,297,920	456,465	216
14	2,989,440	0	32,480	24,094	2,916,672	2,380,672	457,135	206
15	2,067,264	0	35,294	27,643	3,440,640	2,906,640	457,660	196
16	5,724,000	0	34,755	27,041	2,639,040	2,103,040	448,210	193
17	4,885,920	0	35,560	27,916	2,657,856	2,121,856	439,130	198
18	3,952,224	0	33,180	23,114	2,729,088	1,604,088	457,445	210
19	4,397,184	0	37,331	28,315	2,171,136	1,046,136	442,945	230
20	4,350,816	0	37,506	28,630	2,312,832	1,187,832	451,525	240
21	2,733,408	0	34,895	24,962	1,636,032	511,032	451,205	240
22	2,145,600	0	36,064	25,928	1,617,408	1,617,408	451,455	232
23	5,346,144	0	33,502	26,992	1,643,904	435,904	451,260	246
24	3,972,672	0	31,255	25,193	1,550,976	342,976	451,125	243
25	4,217,760	0	30,128	24,227	1,536,000	328,000	450,880	240
26	4,558,752	0	35,749	28,427	1,431,168	223,168	434,890	205
27	3,621,888	0	28,483	24,787	1,499,328	291,328	288,065	187
28	1,471,968	0	32,326	26,677	1,497,792	289,792	113,950	181
29	1,115,712	0	28,595	23,646	1,076,544	1,076,544	241,605	186
30	3,530,592	0	33,397	22,974	1,350,336	1,023,336	250,210	186
Total	121,502,880	3,168	1,075,977	841,141	68,326,656	51,246,656	13,218,875	7,231

Table 36. San Luis Field Division Energy Data

(in kWh)

September 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,497,024	1,089,024	0	0	1,092,096	1,092,096
2	1,172,736	764,736	0	0	1,611,360	1,565,360
3	1,355,472	944,472	0	0	796,320	635,320
4	1,221,840	891,840	0	0	587,232	426,232
5	1,092,384	762,384	0	0	685,152	524,152
6	1,225,008	895,008	0	0	773,280	773,280
7	1,238,544	908,544	0	0	16,416	16,416
8	1,673,136	1,529,136	0	0	679,104	-10,896
9	1,167,264	1,032,264	269,568	269,568	1,337,760	-39,240
10	1,173,312	1,038,312	179,712	179,712	1,351,296	-25,704
11	1,111,248	1,000,248	0	0	1,785,312	-32,688
12	1,219,104	1,108,104	0	0	1,778,688	-39,312
13	1,205,424	1,094,424	234,720	234,720	1,403,424	-10,576
14	1,400,832	1,289,832	0	0	918,144	-17,856
15	1,265,616	1,145,616	0	0	1,913,760	-32,240
16	1,136,448	1,028,448	439,488	439,488	922,176	-13,824
17	1,051,344	943,344	1,440	1,440	1,016,928	-17,072
18	1,010,304	902,304	572,256	572,256	1,349,856	-27,144
19	1,110,384	1,002,384	191,232	191,232	1,936,224	118,224
20	1,095,696	987,696	510,336	510,336	1,643,040	-64,960
21	1,387,872	1,279,872	1,529,856	1,529,856	1,207,872	-29,128
22	1,402,272	1,402,272	1,340,352	1,340,352	1,412,640	-62,360
23	993,600	993,600	1,327,968	1,327,968	1,747,008	-70,992
24	1,090,944	1,090,944	1,118,016	1,118,016	2,187,936	-249,064
25	1,081,440	1,081,440	1,175,904	1,175,904	1,927,584	-179,416
26	1,229,040	1,229,040	1,362,240	1,362,240	1,732,608	-31,392
27	1,162,080	1,162,080	1,367,712	1,367,712	2,207,808	2,808
28	1,658,304	1,658,304	1,518,624	1,518,624	1,840,032	27,032
29	1,450,512	1,450,512	1,156,320	1,156,320	1,355,616	-16,384
30	1,148,688	1,148,688	1,092,960	1,092,960	1,014,048	-14,952
Total	37,027,872	32,854,872	15,388,704	15,388,704	40,230,720	4,195,720

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

September 2002

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	38,902	104,048	79,686	75,816	80,496	1,442,448	1,599,408	3,584,448	13,049,280
2	32,544	86,928	80,244	76,680	81,936	1,442,088	1,575,000	3,537,216	13,044,960
3	26,176	67,976	64,008	59,832	62,064	1,051,344	1,124,712	2,494,368	8,914,320
4	34,518	91,352	105,840	105,048	103,482	1,065,096	1,116,864	2,444,544	8,776,080
5	31,854	87,920	95,184	91,476	92,322	1,261,152	1,373,328	2,990,592	10,987,200
6	26,174	71,256	84,258	82,422	81,954	1,202,688	1,254,240	2,741,472	9,979,200
7	35,406	94,952	89,244	85,752	85,986	1,574,136	1,672,128	3,745,440	13,903,920
8	29,680	82,568	106,740	101,358	104,130	1,772,568	1,993,248	4,513,824	16,436,160
9	19,072	50,680	59,814	56,754	59,292	1,338,480	1,441,800	3,202,560	11,766,960
10	21,868	60,416	83,520	80,568	81,774	1,361,664	1,443,384	3,171,168	11,594,160
11	19,882	56,040	100,980	98,892	98,694	1,263,168	1,348,056	2,973,600	10,938,240
12	22,744	60,888	94,554	92,466	91,368	1,307,448	1,413,936	3,168,576	11,598,480
13	20,594	59,168	97,074	94,356	93,132	1,270,152	1,344,312	3,001,824	10,933,200
14	24,454	65,744	92,016	90,198	89,838	1,595,448	1,718,280	3,862,656	14,140,800
15	23,926	66,952	98,928	93,780	97,974	1,750,176	1,928,016	4,319,424	15,948,000
16	16,856	44,664	65,844	61,974	65,592	1,160,352	1,254,456	2,815,488	10,103,760
17	21,358	59,568	85,752	84,132	84,888	1,171,656	1,266,336	2,774,592	10,457,280
18	26,624	69,584	90,810	88,380	88,956	1,276,776	1,361,664	3,008,160	10,865,520
19	23,434	61,784	88,848	85,554	87,408	1,247,832	1,357,488	2,982,816	10,882,800
20	19,000	53,792	99,018	96,804	95,184	1,161,288	1,259,280	2,789,568	10,270,800
21	25,124	68,816	85,752	82,980	83,880	1,699,776	1,884,168	4,236,768	15,715,440
22	20,726	54,008	97,542	93,168	97,866	1,749,240	1,928,664	4,320,864	15,958,080
23	16,416	42,184	58,896	55,782	58,014	1,050,624	1,171,656	2,591,712	9,509,760
24	17,060	45,920	88,020	85,500	85,716	1,221,480	1,295,568	2,892,384	10,503,360
25	19,470	52,352	86,472	84,438	86,544	1,155,312	1,292,976	2,874,240	10,275,840
26	23,618	62,544	104,544	100,674	101,826	1,281,456	1,341,504	2,965,824	10,761,120
27	21,318	58,960	69,714	67,050	70,254	1,233,000	1,323,864	2,927,808	10,782,000
28	29,574	82,336	91,836	89,118	89,802	1,897,776	2,080,368	4,694,400	17,384,400
29	21,974	63,784	96,552	90,972	95,292	1,730,232	1,939,176	4,355,424	15,944,400
30	19,232	52,016	54,558	51,480	53,406	1,205,136	1,314,360	2,947,392	10,779,120
Total	729,578	1,979,200	2,596,248	2,503,404	2,549,070	40,939,992	44,418,240	98,929,152	362,204,640

Table 38. Southern Field Division Energy Data

(in kWh)

September 2002

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	677,432	1,366,488	1,920,000	374,836	1,838,652	3,420,768	192,465
2	677,320	1,137,312	1,800,000	383,908	2,219,016	3,362,112	236,334
3	406,840	1,090,296	1,800,000	275,856	1,392,636	3,326,784	197,001
4	410,200	1,112,112	1,800,000	266,168	1,441,848	3,602,112	159,726
5	437,304	1,139,256	1,800,000	379,680	1,506,240	3,520,992	184,002
6	416,304	1,246,248	1,800,000	318,892	1,575,240	3,744,672	189,483
7	609,616	920,304	1,800,000	409,416	2,420,652	3,642,816	282,681
8	913,192	1,100,448	1,800,000	408,212	2,448,300	3,686,880	294,672
9	471,072	1,182,816	1,920,000	360,780	1,820,820	3,717,792	226,674
10	453,768	1,249,776	1,920,000	350,924	2,044,812	3,649,344	238,518
11	467,768	1,092,384	1,920,000	325,948	1,839,708	3,393,600	250,677
12	501,256	1,213,992	1,920,000	358,036	1,925,196	3,529,056	213,843
13	495,376	1,215,720	1,920,000	323,764	1,669,620	3,761,184	206,934
14	595,000	1,257,768	1,920,000	424,536	2,589,660	3,622,752	264,432
15	676,816	1,199,520	1,920,000	424,340	2,586,300	3,520,128	306,432
16	385,056	1,079,712	1,920,000	323,624	1,839,372	3,426,048	264,642
17	407,848	1,097,568	1,920,000	333,060	1,745,052	3,745,248	208,740
18	452,816	1,093,824	1,920,000	334,964	1,796,712	3,567,552	216,972
19	421,176	1,094,688	1,920,000	337,680	1,942,968	3,768,288	224,700
20	420,504	1,125,504	1,920,000	332,780	1,669,584	3,613,824	204,540
21	789,096	1,262,808	1,920,000	424,368	2,311,500	3,702,624	261,240
22	677,600	1,254,744	1,920,000	424,452	2,750,244	3,531,936	306,117
23	286,552	1,247,472	2,040,000	316,708	1,944,924	3,561,312	256,851
24	409,360	1,079,208	2,040,000	336,000	1,895,028	3,843,648	243,222
25	382,032	1,161,144	2,040,000	335,104	1,788,624	3,793,728	215,922
26	383,544	1,152,720	2,040,000	359,968	1,937,784	3,799,584	220,059
27	386,176	1,150,920	2,040,000	366,016	1,955,256	3,758,496	246,183
28	1,010,968	1,161,648	2,040,000	424,760	2,399,424	3,610,272	268,674
29	818,776	1,542,384	2,003,000	424,284	2,399,124	3,764,736	281,988
30	383,152	1,155,024	1,920,000	360,276	1,892,628	3,674,784	234,297
Total	15,823,920	35,183,808	57,563,000	10,819,340	59,586,924	108,663,072	7,098,021